| | Application No. | Applicant(s) |
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| Notice of Allowability | 40/606 775 | FURUHASHI ET AL. |
| | 10/696,775 Examiner | Art Unit |
| • | | |
| | Stephen W. Smoot | 2813 |
| The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.31 | 6 (OR REMAINS) CLOSED in the or other appropriate communing or other appropriate communing or other application is subsected. | nis application. If not included cation will be mailed in due course. THIS |
| 1. \boxtimes This communication is responsive to <u>applicant's RCE filed</u> | <u>i on 18 July 2006</u> . | |
| 2. X The allowed claim(s) is/are 8-15,17-19,21,23,25 and 26. | | |
| 3. ☑ Acknowledgment is made of a claim for foreign priority u a) ☑ All b) ☐ Some* c) ☐ None of the: | inder 35 U.S.C. § 119(a)-(d) or | (f) . |
| 1. Certified copies of the priority documents have been received. | | |
| 2. Certified copies of the priority documents have been received in Application No | | |
| 3. Copies of the certified copies of the priority documents have been received in this national stage application from the | | |
| International Bureau (PCT Rule 17.2(a)). | | |
| * Certified copies not received: | | |
| Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONI THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. | | reply complying with the requirements |
| 4. A SUBSTITUTE OATH OR DECLARATION must be subminformal patent application (PTO-152) which give | nitted. Note the attached EXAN ves reason(s) why the oath or d | IINER'S AMENDMENT or NOTICE OF eclaration is deficient. |
| 5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. | | |
| (a) ☐ including changes required by the Notice of Draftsper | rson's Patent Drawing Review (| PTO-948) attached |
| 1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date | <u>_</u> . | |
| (b) including changes required by the attached Examiner Paper No./Mail Date | r's Amendment / Comment or in | the Office action of |
| Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in | 1.84(c)) should be written on the the header according to 37 CFR | drawings in the front (not the back) of 1.121(d). |
| 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. | | |
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| Attachment(s) | E 🖂 Nieties of Info | rmal Detent Application (DTO 152) |
| 1. Notice of References Cited (PTO-892) | <u> </u> | rmal Patent Application (PTO-152) |
| 2. Notice of Draftperson's Patent Drawing Review (PTO-948) | | ail Date |
| 3. Information Disclosure Statements (PTO-1449 or PTO/SB/ | /08), 7. ☑ Examiner's A | mendment/Comment |
| Paper No./Mail Date 4. | 8. 🗌 Examiner's S | tatement of Reasons for Allowance |
| of Biological Material | 9. 🗌 Other | |
| Gentla A | l + | Stephen W. Smoot Patent Examiner Art Unit 2813 |

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This Office action is in response to applicant's RCE filed on 18 July 2006.

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below to change the title to one

that indicates that the allowed claims exclude an insulation film of SiOCN and to cancel

the non-elected claims. Should the changes and/or additions be unacceptable to

applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure

consideration of such an amendment, it MUST be submitted no later than the payment

of the issue fee.

The application has been amended as follows:

In the Specification:

Change the Title of the Invention to

--Method for Fabricating a Semiconductor Device Including the Use of a

Compound Containing Silicon and Nitrogen to Form an Insulation Film of SiN or

SiCN--.

In the Claims:

Cancel claims 1-7, 20, 22, 24.

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2. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's amendment filed on 18 July 2006 has been entered.

- 3. This application is in condition for allowance except for the presence of claims 1-7, 20, 22, 24 directed to species that are non-elected without traverse. Accordingly, claims 1-7, 20, 22, 24 have been cancelled.
- 4. Claims 8-15, 17-19, 21, 23, 25-26 are allowed.
- 5. The following is an examiner's statement of reasons for allowance:
 - Claims 8-15, 17-19, 21, 23, 25 are allowed because the prior art of record does
 not teach or suggest, in combination with the other claim limitations, a method for
 fabricating a semiconductor device that includes forming an insulation film of SiN
 or SiCN from a first raw material of a compound that contains at least silicon and
 nitrogen, a second raw material of a compound that contains plural nitrogen
 atoms in a molecule, wherein the molecule is not N₂, and ammonia as a third raw
 material; and

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 Claim 26 is allowed because the prior art of record does not teach or suggest, in combination with the other claim limitations, a method for fabricating a semiconductor device that includes forming an insulation film of SiCN from a first raw material of a compound that contains at least silicon and nitrogen and a second raw material of a compound that contains plural nitrogen atoms in a molecule, wherein the molecule is not N₂.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stephen W. Smoot whose telephone number is 571-272-1698. The examiner can normally be reached on M-F (8:00 am to 4:30 pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carl Whitehead, Jr. can be reached on 571-272-1702. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

SWS